In re Application of WILLIAMS et al.
Serial No. 09/849,170

Listing of the Claims:

1.   (currently amended): A computer system, comprising,

a writing instrument that generates, <u>relative to itself and</u> using a ballistic

information generator, ~~that generates~~ ballistic information about self-movement,

movement information including acceleration information from a user's handwriting;

and

a conversion component that utilizes the acceleration information to

generate line thickness information.

2.   (original): The computer system of claim 1, wherein the writing

instrument is a pen.

3.   (previously presented): The computer system of claim 1, wherein the

writing instrument comprises an accelerometer configured to generate the

acceleration information.

4.   (previously presented): The computer system of claim 3, wherein the

accelerometer generates analog movement information, and wherein the writing

instrument comprises an analog-to-digital converter for converting the analog

movement information to digital data.

2

In re Application of WILLIAMS et al.
Serial No. 09/849,170

5.   (original): The computer system of claim 4, wherein the conversion

component is located remote from the writing instrument, and further comprising

transmitting the digital data to the conversion component.

6.   (original): The computer system of claim 5, wherein the digital data is

transmitted via a wireless connection.

7.   (original): The computer system of claim 5, wherein the digital data is

transmitted via a hardwired connection.

8.   (original): The computer system of claim 3, wherein the

accelerometer is configured to generate tilt information.

9.   (currently amended): A computer system, comprising,

        a writing instrument that generates, relative to itself and using a ballistic

information generator, movement information including acceleration information

from a user's handwriting; and

        a conversion component that utilizes the acceleration information to

generate line thickness information based upon spacing of plots in a map of a plot

of the movement information.

10.   (original): The computer system of claim 9, wherein the thickness

information is based upon the samples/unit distance of the plots.

3

In re Application of WILLIAMS et al.
Serial No. 09/849,170

11.   (original): The computer system of claim 10, wherein the thickness

information increases a thickness component as the samples/unit distance

increase.

12.   (previously presented): The computer system of claim 3, wherein the

conversion component generates thickness information based upon wavelengths

of the movement information.

13.   (original): The computer system of claim 12, wherein the thickness

information increases a thickness component as the wavelengths increase.

14.   (original): The computer system of claim 1, wherein the conversion

component is located remote from the writing instrument, and further comprising

transmitting the digital data to the conversion component.

15.   (original): The computer system of claim 14, wherein the digital data

is transmitted via a wireless connection.

16.   (original): The computer system of claim 14, wherein the digital data

is transmitted via a hardwired connection.

4

In re Application of WILLIAMS et al.
Serial No. 09/849,170

17.   (previously presented): The computer system of claim 9, wherein the movement information comprises tilt information.

18.   (currently amended): A computer system, comprising,

a writing instrument that generates, relative to itself, movement information including acceleration and tilt information from a user's handwriting; and

a conversion component that utilizes the acceleration information to generate line thickness information based upon spacing of plots in a map of a plot of the tilt information.

19.   (original): The computer system of claim 18, wherein the thickness information is based upon the samples/unit distance of the plots.

20.   (original): The computer system of claim 19, wherein the thickness information increases a thickness component as the samples/unit distance increase.

21.   (previously presented): The computer system of claim 1, wherein the movement information comprises pulses having wavelengths.

22.   (original): The computer system of claim 21, wherein the thickness information increases a thickness component as the wavelengths increase.

5